Date: Sat, 9 Jul 94 04:30:39 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #181
To: Ham-Space

Ham-Space Digest   Sat, 9 Jul 94   Volume 94 : Issue 181

Today's Topics:

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

Date: Sat, 9 Jul 1994 02:00:54 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!zip.eecs.umich.edu!
yeshua.marcam.com!charnel.ecst.csuchico.edu!csusac.ecs.csus.edu!csus.edu!
netcom.com!n4zr@network.ucsd.edu
Subject: Apollo 11 Anniversary
To: ham-space@ucsd.edu

Apollo 11 25th Anniversary Amateur Radio Special Event Station Activity

At 1627 EDT, Sunday afternoon, July 20, 1969, astronaut Neil A. Armstrong
spoke the words "Houston, Tranquility Base here. The Eagle has landed."
At 2256 EDT, later the same day, Armstrong stepped down from the ladder
of the Lunar Module onto the Moon's surface and spoke the words, "That's
one small step for a man, one giant leap for mankind."

To commemorate that historic event twenty-five years ago next week, amateur

radio clubs and groups at NASA Headquarters and the various NASA field centers will be on the air as "Special Event Stations", contacting amateur radio operators around the world.

Amateur Radio clubs or groups from twelve NASA locations are currently preparing for the 60-hour special event operating period from their respective facilities. Ham groups from other NASA locations may also be on-line to participate by the time the special event period arrives. This is the first time so many NASA stations will be represented on the air at one time. Contacts with these stations during the special event period will be confirmed on request with a certificate to commemorate man's first steps on the Moon and the special event activity.

Details:

Event Name:
Apollo 11 Moon Landing 25th Anniversary

Date/Time Period:
1700Z, July 19 through 0500Z, July 22
(1300 EDT, July 19 through 0100, July 22)

Modes:
CW, SSB, FM, Packet, Pactor, Amtor, RTTY, SSTV, ATV, Satellites.

Frequencies:
HF CW/SSB: Check 11 (as in Apollo 11) kHz up from the bottom of the General Class portion of the amateur radio bands (except 10m SSB: 28.411+ MHz).

Other Modes:
Check modes/frequencies as indicated by the individual stations below.

QSL Information:
A certificate is being designed to commemorate this special event activity, which will be individualized for each special event station.

Domestic Stations: Send a 9" x 12" self-addressed, stamped envelope to the callbook address (CBA) of the station worked or to the address specified by the station worked. Attach $0.52 postage to cover return mailing.

DX Stations: Send a 9" x 12" self-addressed envelope to the appropriate address, with sufficient IRC's or U.S. Postage for return mailing of up to 1.5 oz (42.52 grams).
Europe = $1.40US postage (3 IRC);
Mexico = $0.63US postage (2 IRC);

Canada = $0.55US (2 IRC).

Individual Station Specifics:
==========

Ames Amateur Radio Club,
NASA Ames Research Center, Moffett Field, CA
Callsign: K6MF
Bands: 40-10m (excl. WARC), 2m
Modes: CW, SSB, FM
Special Freqs: 145.585 MHz
QSL Address: AARC
Box 73
Moffett Field, CA 94035-1000

Dryden Amateur Radio Club,
NASA Dryden Flight Research Center, Edwards, CA
Callsign: KF7GD
Bands: 80-10m (incl WARC), 2m
Modes: CW, SSB
Special Freqs: 2m SSB: 144.25 MHz; FM: 146.55 MHz
QSL Address: NASA DFRC
Attn: Dryden ARC
POB 273
Edwards, CA 93523

Goddard Amateur Radio Club, Inc.,
NASA Goddard Space Flight Center, Greenbelt, MD
Callsign: WA3NAN
Bands: 160-10m (incl WARC), 2m
Modes: CW, SSB
Special Freqs: 2m: 146.58 FM Simplex
QSL Address: Callbook Address, or
GARC
P.O. Box 86
Greenbelt, MD 20768-0086

Guam Contingency Landing Site Amateur Radio Group
Guam
Callsign: KC4YDP/KH2
Bands: 80-10m (incl WARC)
Modes: CW, SSB
Special Freqs:
QSL Address: NASA
RADIO

Kennedy Space Center, Florida 32899

NASA Headquarters Amateur Radio Group
Washington, D.C.
Callsign: N4ZR
Bands: 80-10 (incl WARC)
Modes: CW, SSB
Special Freqs:
QSL Address: CBA
N4ZR
2003 Sarazen Place
Reston, VA 22091-3809

Jet Propulsion Laboratory Amateur Radio Club and
Goldstone Amateur Radio Club
Jet Propulsion Laboratory, Pasadena, CA
Callsign: W6VIO
Bands: 80-10 (incl WARC), 2m
Modes: CW, SSB, Amtor, Packet, RTTY, Pactor
Special Freqs: SSTV: 14.230 MHz
Packet Node/BBS (W6VIO-1):
144.090/223.540 MHz
2m Repeaters (freq in MHz):
(W6VIO) 147.15+/224.72-
(WB6TZS)145.28-/223.96-/447.325-
Satellites: AO10/13/LEOS SSB/CW
QSL Address: Jet Propulsion Laboratory Amateur Radio Club
M/S 168-327
4800 Oak Grove Dr.
Pasadena, Ca. 91109

Johnson Space Center Amateur Radio Club
NASA Johnson Space Center, Houston, TX
Callsign: W5RRR
Bands: 80-10 (incl WARC), 2m, 70cm
Modes: CW, SSB, FM, Digital Modes,
SSTV, ATV, Satellites
Special Freqs: 2m repeaters
QSL Address: JSC ARC/W5RRR
Johnson Space Center
Houston, Texas 77058
BBS: (713)244-5625

Kennedy Space Center Amateur Radio Group

Kennedy Space Center, FL
Callsign: KC4TCV (SSB) / AD4NA (CW)
Bands: 160-10m (incl WARC)
Modes: CW, SSB, Pactor, RTTY, Satellites
Special Freqs: Packet: 145.09 MHz;
2m Repeater 146.34/.94, 146.31/.91, 146.96/.36
QSL Address: NASA
RADIO
Kennedy Space Center, Florida 32899

NASA Lewis Amateur Radio Club (NLARC)
NASA Lewis Research Center, Cleveland, OH
Callsign: AK8Y
Bands: 80-10m
Modes: CW, SSB, RTTY, Amtor, Pactor, FM, Satellites
Special Freqs: Repeaters: 147.195+/444.1 MHz
RTTY: 14.080-90MHz
Amtor/Pactor: 14.060-80MHz.
Packet: 145.01MHz (call: AK8Y-8)
QSL Address: NASA Lewis Amateur Radio Club
21000 Brookpark Rd, MS 54-6
Cleveland, OH 44135
Attn: Don Hilderman

Marshall Amateur Radio Club
NASA Marshall Space Flight Center, Huntsville, AL
Callsign: WA4NZD
Bands: 160-6m (incl WARC)
Modes: Primarily SSB
Special Freqs: 6m: 50.130 MHz; Oscar 13, Mode B
QSL Address: Marshall Amateur Radio Club
CM21X
MSFC, AL 35812
Phone Message: (205)544-7568

Stennis Space Center Amateur Radio Club
NASA Stennis Space Center, MS
Callsign: K5GY
Bands: 40-10m (no WARC), 2m
Modes: CW, SSB, Novice Bands, Packet
Special Freqs: 2m repeater: 146.70 MHz
QSL Address: Stennis Space Center Amateur Radio Club
Bldg 1201
Stennis Space Center, MS 39529

Wallops Island Amateur Radio Club
NASA Wallops Flight Facility, Wallops Island, VA
          Callsign: KE3ND
          Bands: 80-10m (incl WARC)
          Modes: CW/SSB
          Special Freqs: 2m: 147.55MHz simplex
          QSL Address: Wallops Island ARC
               NASA Wallops Flight Facility
               Building E-134
               Wallops Island, VA 23337

White Sands Complex Amateur Radio Group
NASA White Sands Test Facility, Las Cruces, NM
          Callsign: KF7E
          Bands: 80-10m (incl WARC)
          Modes: CW/SSB
          Special Freqs:
          QSL Address: KF7E
                              P.O. Box 627
                              Organ, NM 88052

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73, Pete
N4ZR@netcom.com

Date: 8 Jul 94 18:50:14 GMT
From: news-mail-gateway@ucsd.edu
Subject: KLV vs. M2 antennas
To: ham-space@ucsd.edu

Has anyone ever compared M2 antennas to the small KLM satellite antennas?
They both use 14 elements on VHF.
KLM is 22 elements on UHF, and M2 is 30 elements on UHF.

I would be particularly interested in any comments about the following:
     1. gain
     2. overall mechanical construction
     3. performance in rain, snow, and ice
     4. ease of polarity switching

Also, is a wood closet rod acceptable as a crossboom?
If so, is polyurethane an acceptable sealant?

Please respond to the newsgroup (others are interested in M2 vs. KLM comments)
or directly to wayne@csg.mot.com

Thanks, and 73,
Wayne Estes WD5FFH, Mundelein, IL

Date: Fri, 8 Jul 1994 17:31:06 GMT
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!lll-winken.llnl.gov!fnnews.fnal.gov!
gw1!nntpa!not-for-mail@network.ucsd.edu
Subject: Looking for STSORBIT (*not* Plus) - found!
To: ham-space@ucsd.edu

In rec.radio.amateur.space, I wrote:

> Can anyone tell me where I can find STSORBIT via ftp?

I was able to ftp it from spacelink.msfc.nasa.gov
The filename is STS9201.ZIP

Note: the ftp server there isn't setup completely, so you won't be able
to see any files in the directory!

Thanks to Don Ryan, N2QFE for the info.

Andy
--
    ==--
  -====---   Andreas Meyer, N2FYE   ahm@hogpa.att.com
  --==----   AT&T Bell Laboratories, Holmdel NJ   ..!att!hogpa!ahm
    ----

Date: Fri, 8 Jul 1994 19:50:30 GMT
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!lll-winken.llnl.gov!fnnews.fnal.gov!
gw1!nntpa!not-for-mail@network.ucsd.edu
Subject: Looking for STSORBIT (*not* Plus) - found!
To: ham-space@ucsd.edu

> I was able to ftp it from spacelink.msfc.nasa.gov
> The filename is STS9201.ZIP
>
> Note: the ftp server there isn't setup completely, so you won't be able

> to see any files in the directory!

Be sure to login as "anonymous", the password is "guest".

Andy
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    ==--
  -====---   Andreas Meyer, N2FYE   ahm@hogpa.att.com
  --==----   AT&T Bell Laboratories, Holmdel NJ   ..!att!hogpa!ahm
    ----

Date: 8 Jul 1994 14:18 CDT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.tcu.edu!news.tcu.edu!
nntp@network.ucsd.edu
Subject: Multiple questions on satellite stuff
To: ham-space@ucsd.edu

Any one have two-line elements for the moon. Mine seem to be old (not a joke).
Actually, the keps I have put the moon in a slightly different position
than a GPS receiver said it would be.

What is the latest version of InstanTrak? Also, how does it determine the
age of a satellite from the International ID? In effect, how is the ID
composed?

thanks

Date: Fri, 8 Jul 1994 18:07:20 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!spool.mu.edu!howland.reston.ans.net!
torn!nott!cunews!freenet.carleton.ca!FreeNet.Carleton.CA!ao859@network.ucsd.edu
Subject: oscar rigs, etc.
To: ham-space@ucsd.edu

To get started with satellite communications a 25w or 50w 2m all mode
with a 3 el or 4el yagi mounted horizontal is ok for uplink to
2 satellites , RS10 and FO20. for the downlink you require
a 10m rig , i suggest an Radioshack HTX100 , they can be had for $100
this will do for the RS10 downlink using crossed horiz dipoles
and maybe a preamp for HF. Kit from Hamtronics NY $29.00.
then for FO20 downlink build an 8 el Quagi , using pine and 1/8 aluminium
rod for elements and #14 copper house wire for drive and reflector
see ARRL antenna handbook for dimensions (one eveing project) just
follow instructions. then to convert from UHF FO20 downlink to
HF 10m Hamtronics 435.5-437.5 rx converter kit $49.00. and you can

reuse your 10m preamp for this as well.
You will have to do a little work to get to FO20 however RS10 is
easy to begin sat operation.

Jeff, Ve3eff
ex\
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Date: Fri, 8 Jul 94 23:52:44 -0500
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!agate!cat.cis.Brown.EDU!
noc.near.net!news.delphi.com!usenet@network.ucsd.edu
Subject: Shoemaker-Levy
To: ham-space@ucsd.edu

Looking for individuals attempting to hear the impact of comet Shoemaker-Levy
strikes Jupiter?
Thanks

Date: Sat, 9 Jul 1994 10:43:48 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
astroman@network.ucsd.edu
Subject: STS-65 Orbital State Vector Rev #5
To: ham-space@ucsd.edu

```
Vector format = 117
Satellite Name:         STS-65
Catalog Number:         23173  94039A
Epoch Date/Time:        94189.79230006944
                        07/08/1994  19:00:54.726 UTC
EFG E:                        11204373.21 ft
    F:                        15768054.36 ft
    G:                       -10300272.16 ft
    Edot:                      -20043.4317 ft/s
    Fdot:                       12949.8134 ft/s
    Gdot:                       -1969.5132 ft/s
ndot/2 (drag):              0.00033846733 rev/day^2
nddt/6:                       4.80752E-09 rev/day^3
Bstar:                        1.06058E-04 1/Earth Radii
Elset #:                                5
Rev @ Epoch:                5.72395390955
```

MSDOS/PC software is available for conversion of
OSV to 2 Line Keplerian Elements via ftp to:
oak.oakland.edu:/pub/msdos/hamradio/v2l9331.zip

and the SIMTEL archives.

State Vectors courtesy Ken Ernandes N2WWD

SM

End of Ham-Space Digest V94 #181
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